

Name: _____
 Period: _____

Activity: Graphing Survivorship Curves

- Graph the three sets of data below on the same graph. Use a different color for each species. You are graphing the percent of maximum life span vs. the percentage of survivors, so your x and y axis intervals need to be 0 to 100.

Table 1: Life table for bullfrogs

Percent of Maximum Life Span	Percentage of Survivors
0	100
7	1.5
14	1.3
21	1.2
29	1.0
36	0.9
43	0.8
50	0.6
57	0.6
64	0.5
71	0.5
79	0.4
86	0.4
93	0.1
100	0

Table 2: Life table for squirrels

Percent of Maximum Life Span	Percentage of Survivors
0	100
17	50
33	15
50	4.5
67	2
83	0.5
100	0

Table 3: Life table for humans (2004 population)

Percent of Maximum Life Span	Percentage of Survivors
0	100
10	99.1
20	98.7
30	97.8
40	96.5
50	93.7
60	88.0
70	76.2
80	22.2
90	2.5
100	0

- Each of the lines on the graph you created represent different types of survivorship curves. Species that exhibit a Type I curve usually produce few offspring but give them good care, increasing the likelihood that they will survive to maturity. Which of the species exhibit a Type I curve? _____
- Species that exhibit a Type III curve indicates high death rates for the very young and then a period when death rates are much lower for those few individuals who survive to a certain age. Species with this type of survivorship curve usually produce very large numbers of offspring but provide little or no care for them. Which of the species exhibit a Type III curve? _____
- A Type II curve is intermediate, with mortality more constant over the life span. Which of the species exhibit a Type II curve? _____
- Label the types of survivorship curves on your graph.